# Kansas City Aviation Department

New Terminal Update – April 12, 2018





# New Terminal Program History

- → September 2017 Edgemoor selected as Developer for new terminal
- → November 2017 KCMO residents voted 75/25 in favor of new terminal
- → December 2017 Community workshops held across the City
- → February 2018 MOU with Edgemoor signed
- Ongoing
  - → Environmental Assessment (Required by FAA)
  - → Meetings with stakeholders: FAA, TSA, SHPO, etc.
  - → Outreach events
  - → Program validation















### Program Validation

Working to ensure the assumptions made in 2014 at the start of the Exhibit K process are accurate:

- → Verify passenger traffic forecast
  - → Required count of ticket counters / bag claims / gates
  - Overnight aircraft parking requirements
  - → Roadway plan
  - → Vehicle parking requirements

Passenger traffic forecast drives the size of the building





### Passenger Traffic Forecast

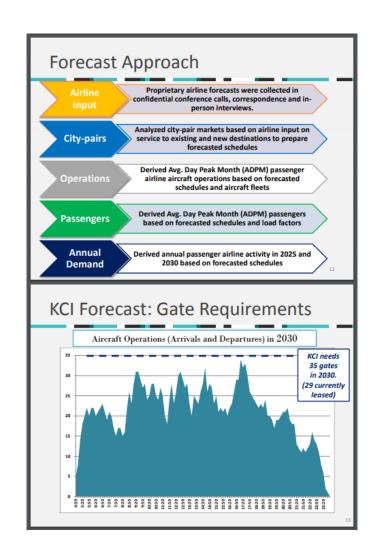
#### Drivers of Exhibit K traffic forecast:

2014 published flight schedules

2014 FAA Terminal Area Forecast (TAF)

Direct input from airline planners

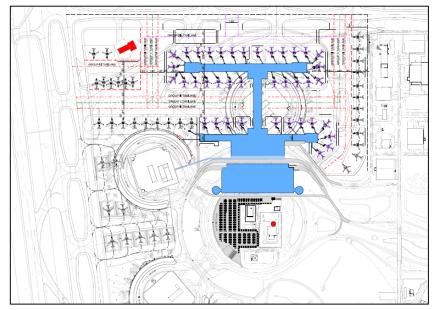
- → Passenger traffic growth at KCI was forecast to be +1.9% annual growth from 2013 to 2030.
- → Average growth since 2013 to today has averaged +3.9% annual growth.
- KCI has added four new airlines in the last year that were not included in the initial forecast.





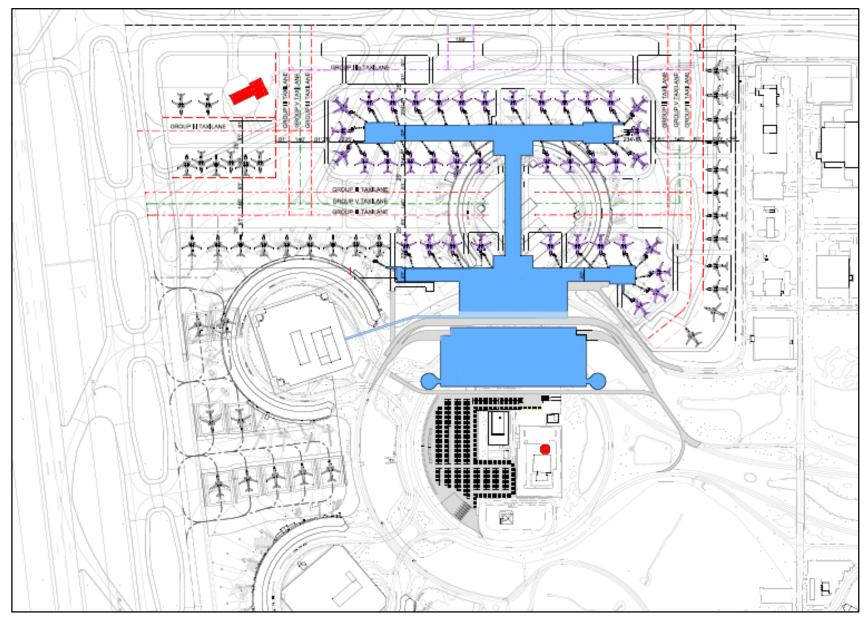
## Updated Gate Requirements

- → Result of Exhibit K process (2016) was a 35-42 gate facility
- > Revised forecast increases initial gate count from 35 to 39 at opening
- → Airlines' commitment to Kansas City is increasing



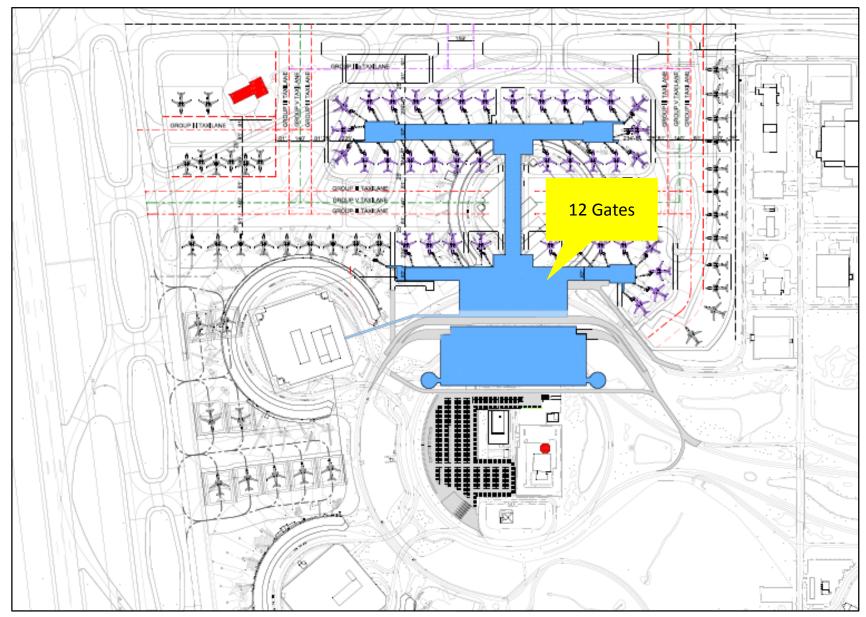
39 Gate Concept





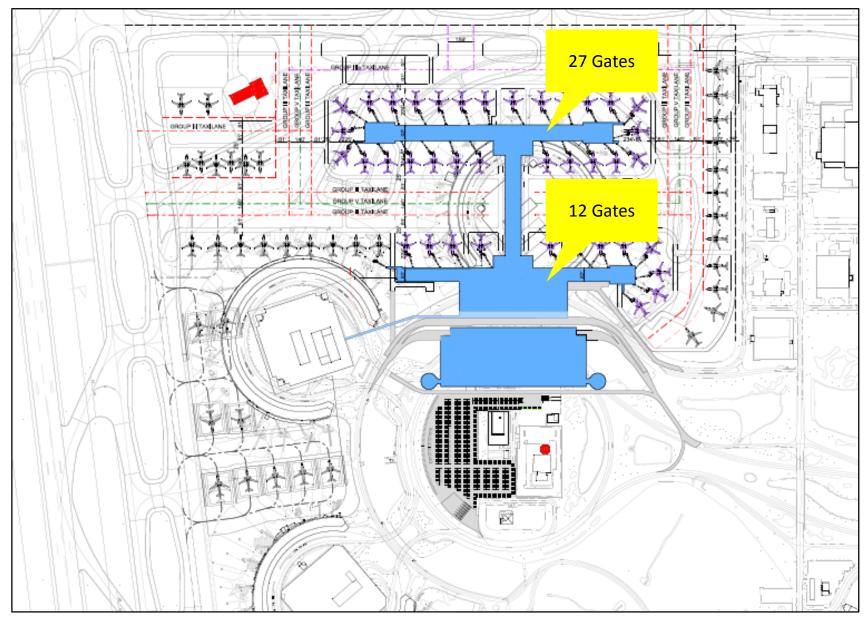
39 Gate Concept – Opening Day





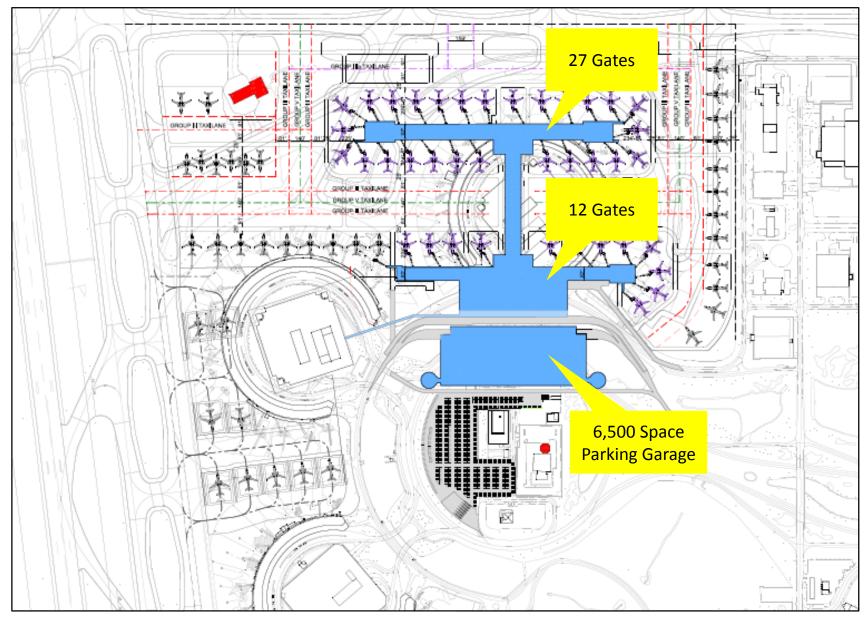
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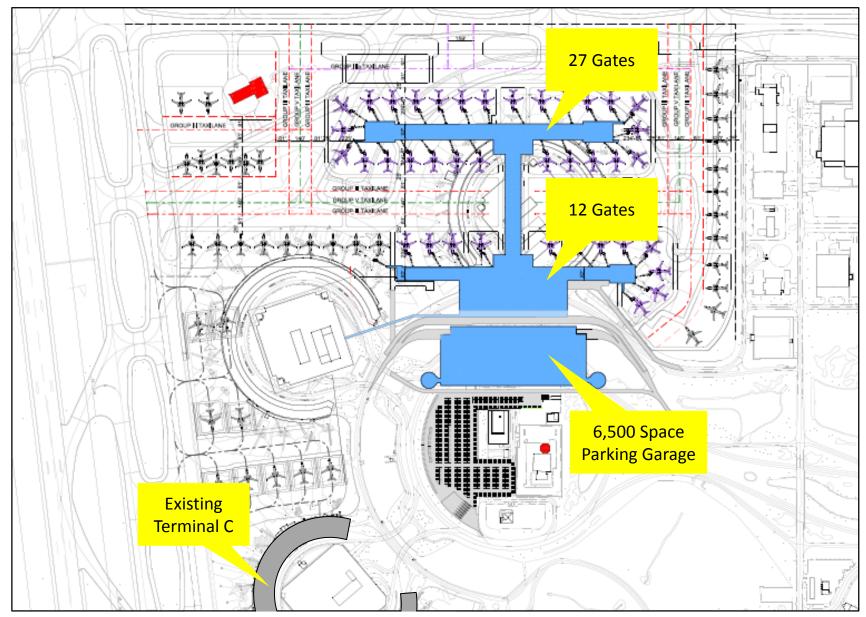
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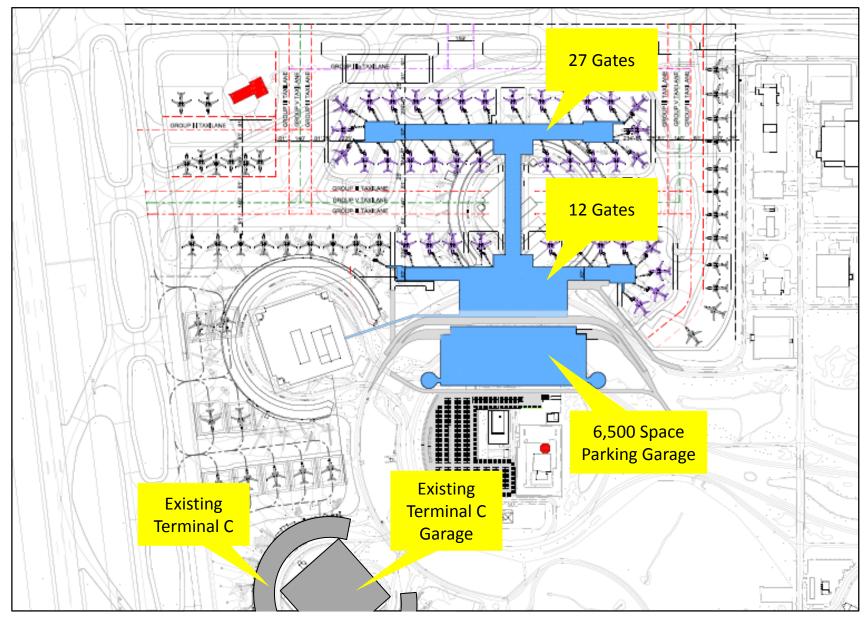
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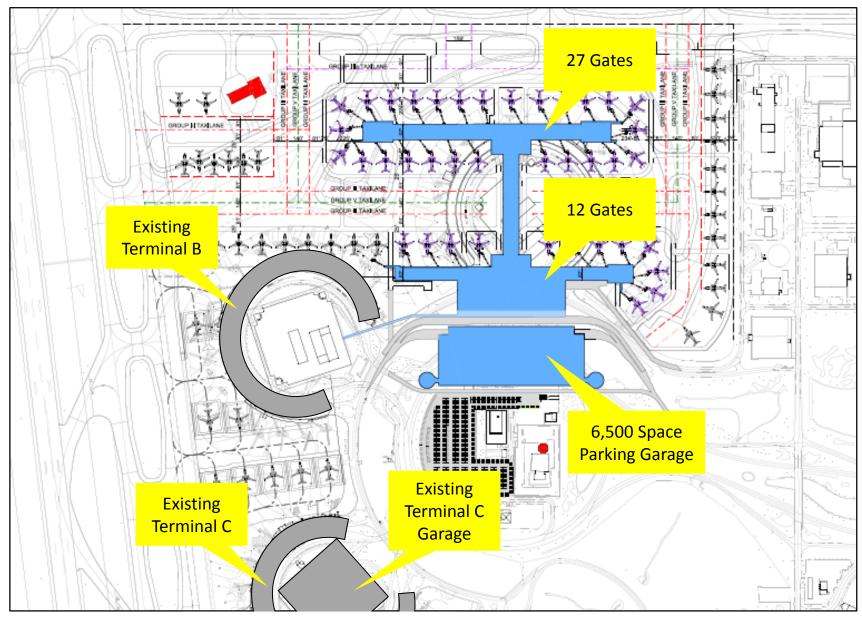
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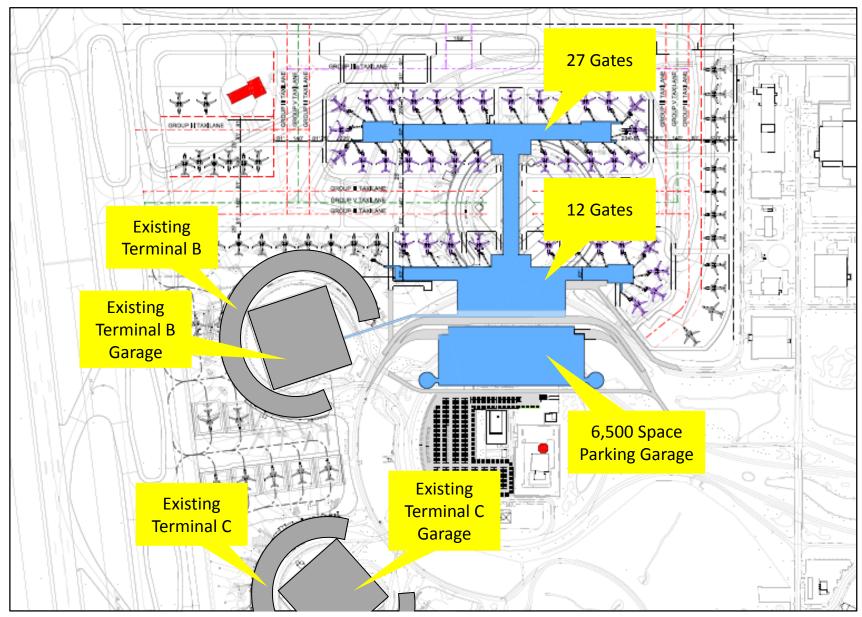
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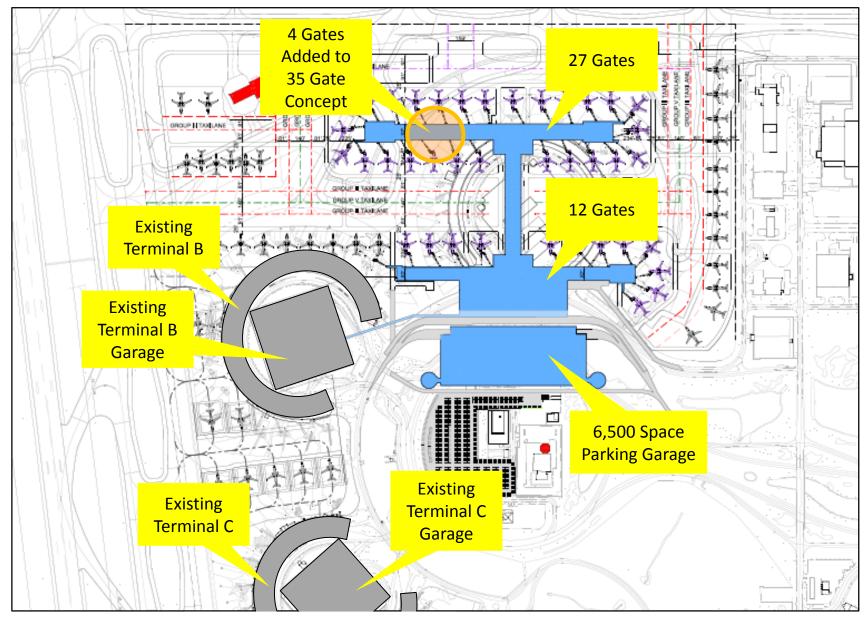
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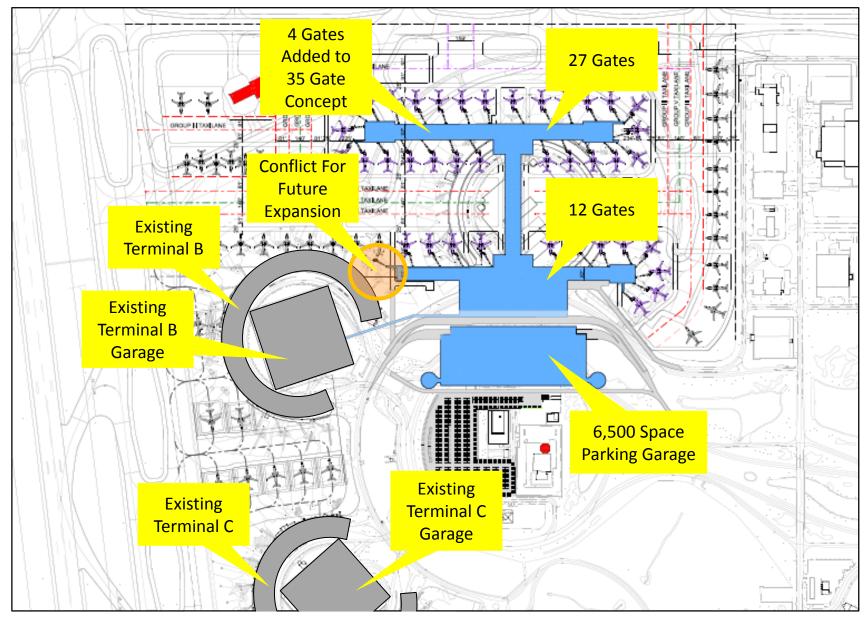
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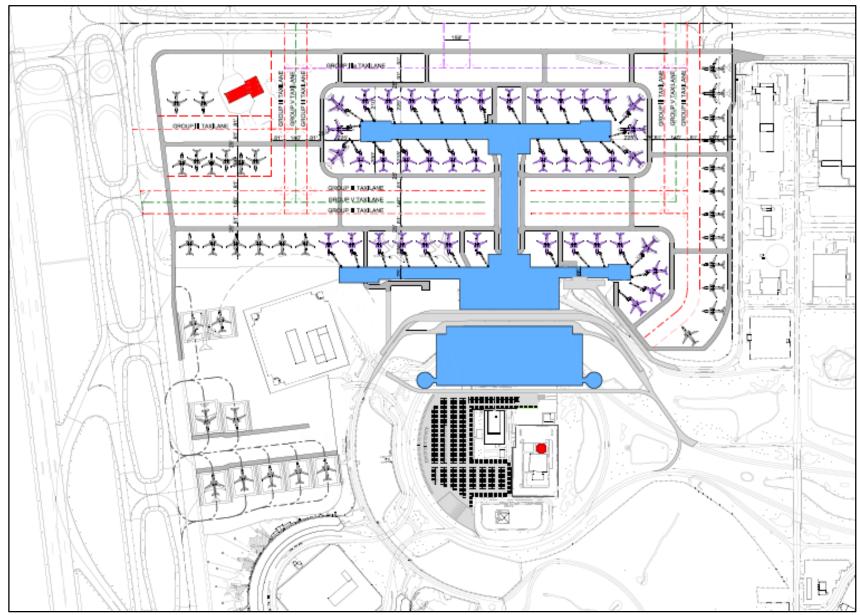
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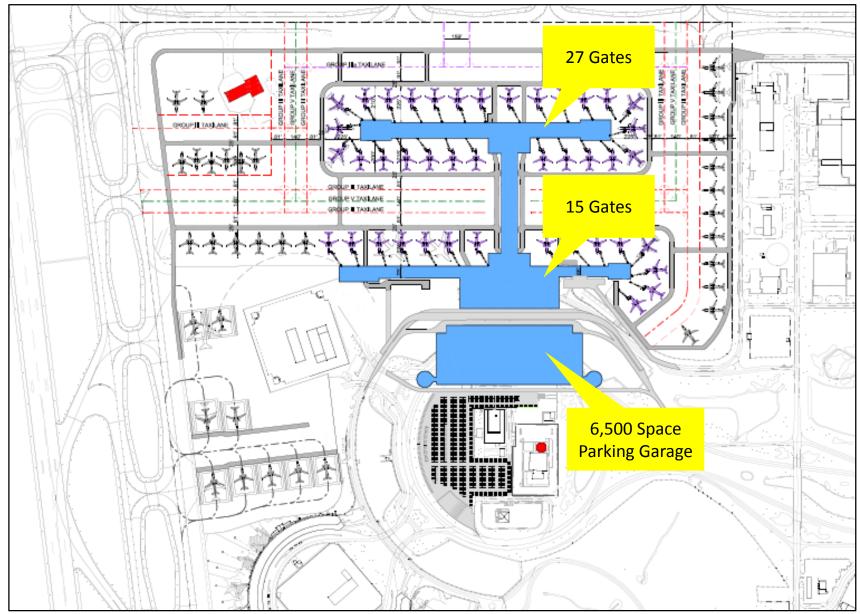
39 Gate Concept – Opening Day





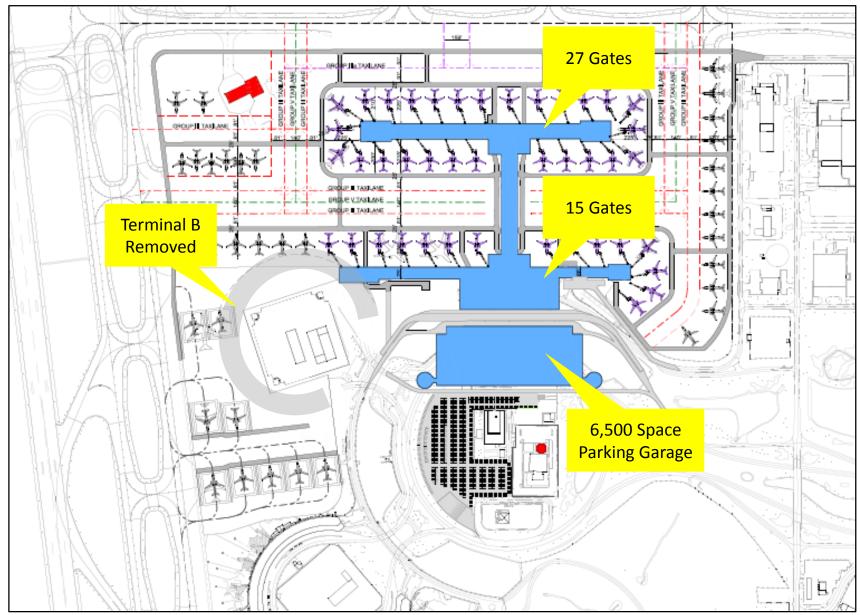
42 Gate Concept - Future





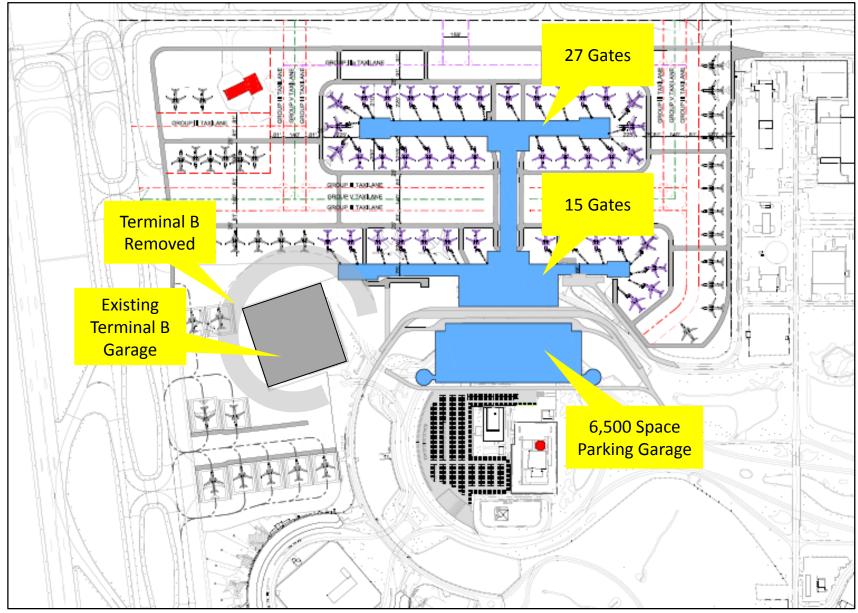
42 Gate Concept - Future





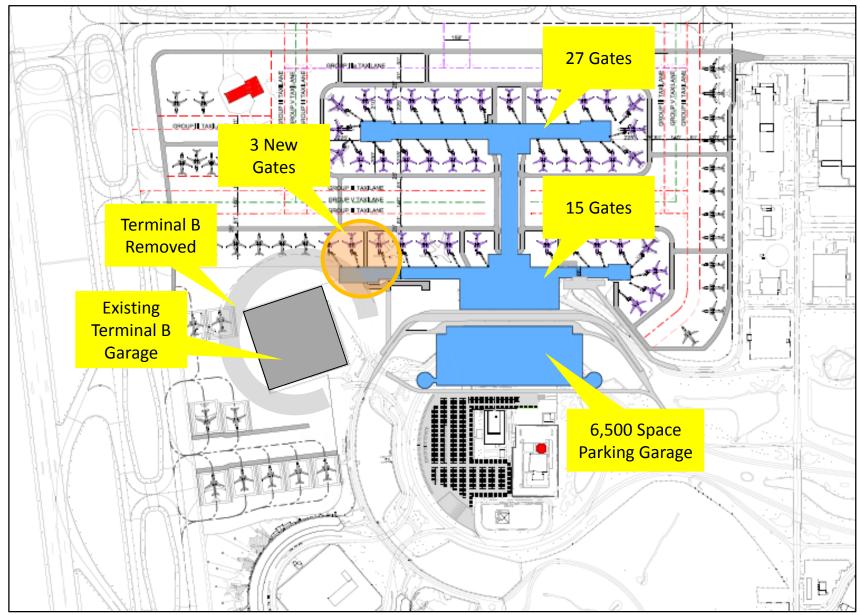
42 Gate Concept - Future





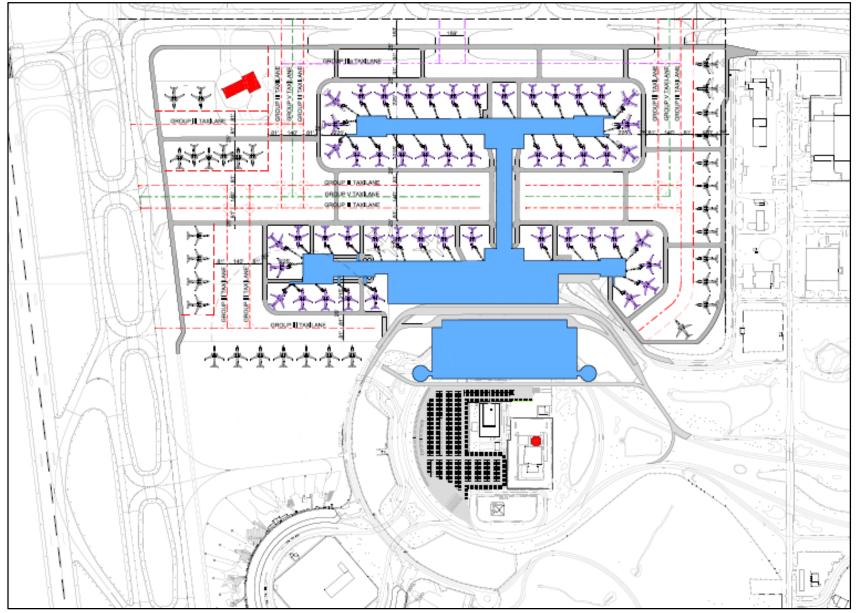
42 Gate Concept - Future





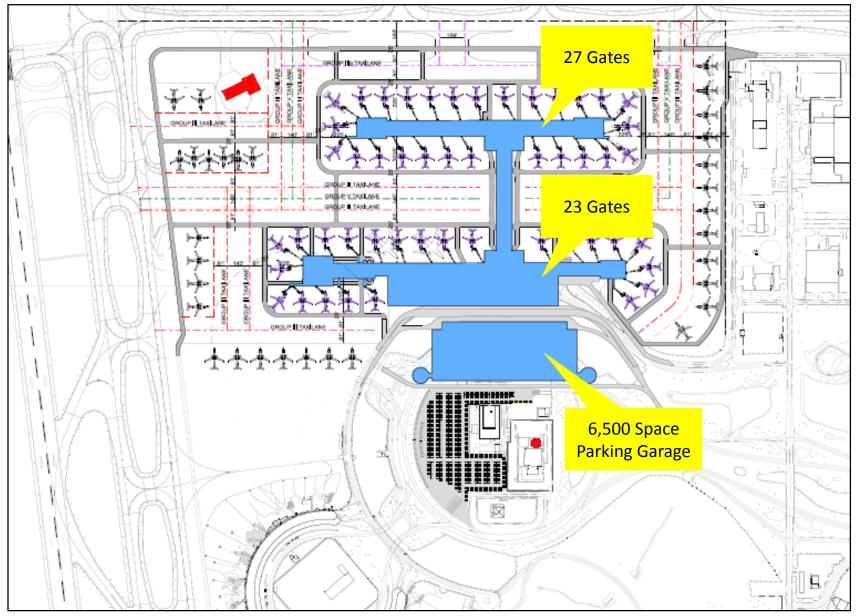
42 Gate Concept - Future





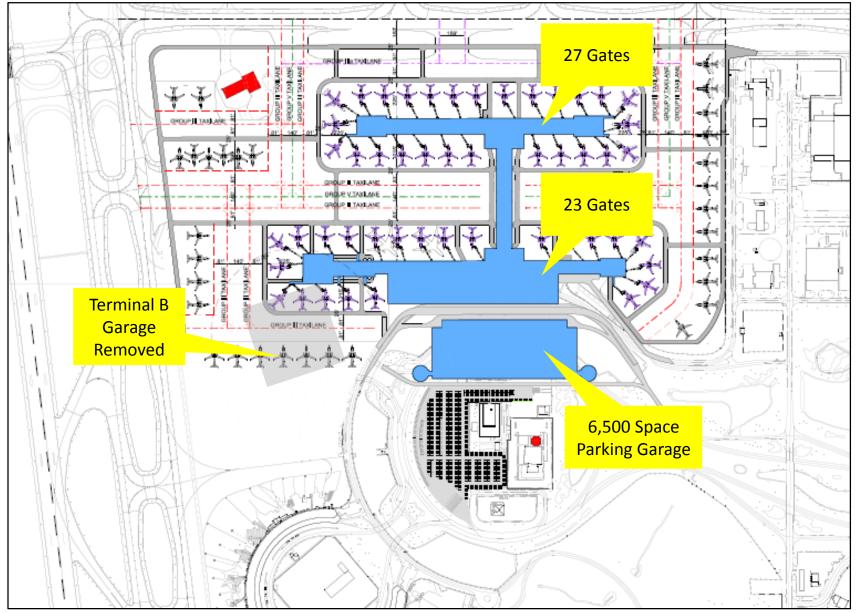
50 Gate Concept - Future





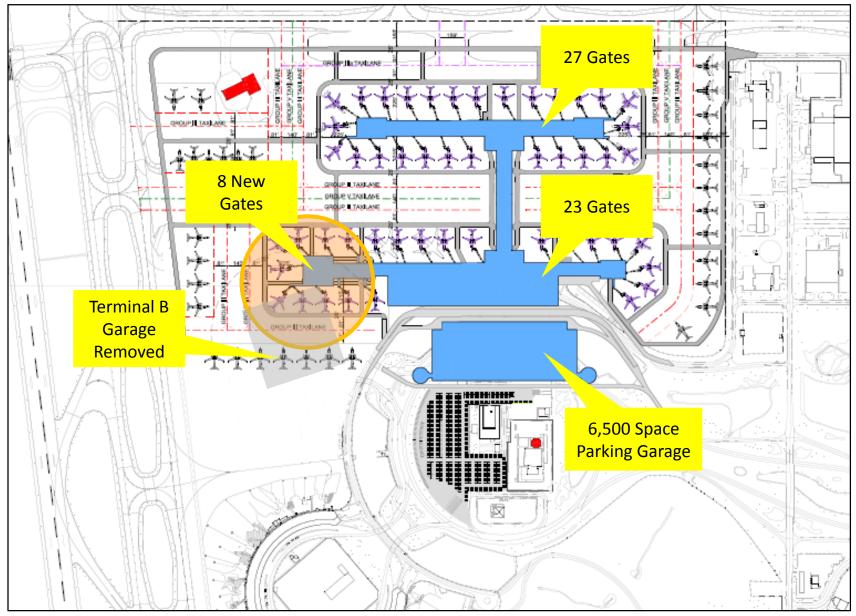
50 Gate Concept - Future





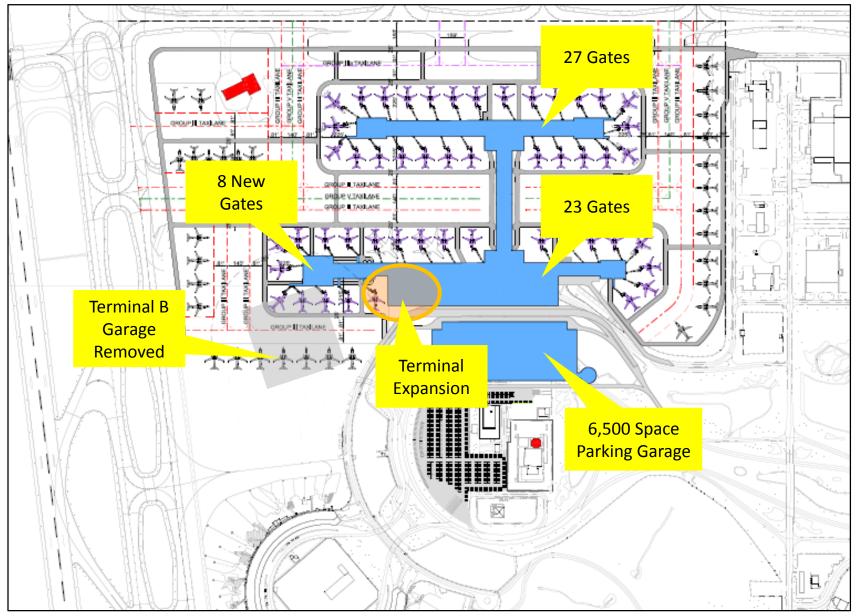
50 Gate Concept - Future





50 Gate Concept - Future





50 Gate Concept - Future



### Impact to Schedule

#### Design/Build

- → Submit Basis of Design Early April
- → Submission of Design Budget/Schedule Mid May
- → KCAD Review/Approve Conceptual Design/Budget/Schedule Late June
- → 50% Schematic Design Early August
- → Schematic Design Complete Late September
- → Subcontracting Bidding October
- → Final Price Late October / Early November



### Impact to Schedule

#### Environmental

- → Draft Report Early July
- → Record of Decision Early October



### Next Steps

#### Monthly Updates to Airport Committee

- → April 19, 2018
- → May 17, 2018
- → June 14, 2018
- → July 19, 2018
- → August 16, 2018
- → September 13, 2018



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### Existing Space/Terminal Requirements

FUNCTION	Existing*	Requirements
Gates	29	35
Ticketing/Check-in	20,879	32,000
Security Checkpoint	29,951	18,640
Departure Lounges	100,281	81,600
Post-Security Departure Corridor	0	95,540
Post-Security Restrooms	4,949	11,200
Airline Club	0	2,500
International Arrivals	21,001	31,460
Concessions	60,097	70,660
Pre-Security Circulation, Restrooms, and Seating	156,283	58,200
Bag Claim	17,745	45,710
Baggage Makeup	72,761	82,080
Airline Operations/ATO/BSO	96,591	56,720
Non Public Spaces	91,955	49,450
Terminal Functions (HVAC, MEP)	101,357	117,200
Total Area	773,850	752,960

Post-Security Space Undersized by Nearly One-Half

Pre-Security Space Nearly 3x Amount Needed

Bag Claim Space Undersized by Nearly 2/3rds

Non Public Space Oversized by Nearly 2x Amount Needed



<sup>\*</sup>Existing Terminals B&C

### Forecast Approach

Airline input Proprietary airline forecasts were collected in confidential conference calls, correspondence and inperson interviews.

City-pairs

Analyzed city-pair markets based on airline input on service to existing and new destinations to prepare forecasted schedules

**Operations** 

Derived Avg. Day Peak Month (ADPM) passenger airline aircraft operations based on forecasted schedules and aircraft fleets

**Passengers** 

Derived Avg. Day Peak Month (ADPM) passengers based on forecasted schedules and load factors

Annual Demand

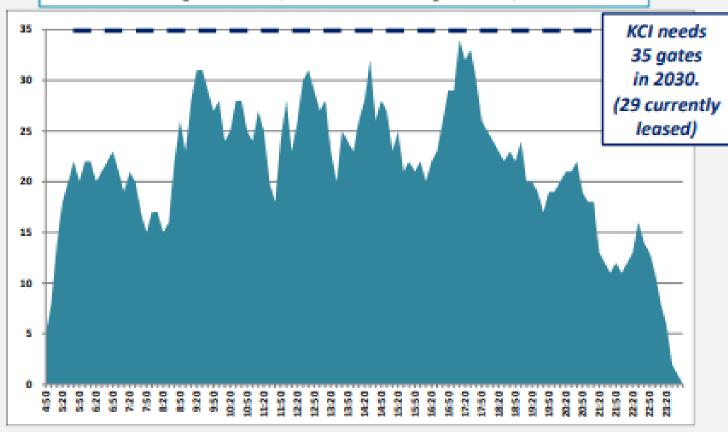
Derived annual passenger airline activity in 2025 and 2030 based on forecasted schedules

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### KCI Forecast: Gate Requirements







### **Forecast Results**

				Growth Rate	
	Enplaned		Average		
	Passengers	Period	Increase	Annual	Period
1972	1,942,377	1972-2015	3,294,599	2.3%	169.6%
1990	3,364,532	1990-2015	1,872,444	1.8%	55.7%
2013	4,941,041				
2014	5,085,437	2013-2014	144,396	2.9%	
2015	5,236,976	2014-2015	151,539	3.0%	
2025	6,380,800	2013-2025	1,439,759	2.2%	29.1%
2030	6,858,500	2013-2030	1,917,459	1.9%	38.8%

Courtesy: Leigh Fisher

